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RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/716,395

DATE: 12/06/2000
 TIME: 14:46:53

Input Set : A:\6752US01 SEQ LISTING.TXT
 Output Set: N:\CRF3\12062000\I716395.raw

ENTERED

4 <110> APPLICANT: Fesik, Steven W.
 5 Petros, Andrew M.
 6 Yoon, Ho Sup
 7 Netteleschein, David G.
 9 <120> TITLE OF INVENTION: MUTANT BCL-2 PEPTIDES AND USES THEREOF
 12 <130> FILE REFERENCE: 6752.US.01
 C--> 14 <140> CURRENT APPLICATION NUMBER: US/09/716,395
 C--> 14 <141> CURRENT FILING DATE: 2000-11-20
 14 <160> NUMBER OF SEQ ID NOS: 37
 16 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 16
 20 <212> TYPE: PRT
 21 <213> ORGANISM: Homo sapiens
 23 <400> SEQUENCE: 1
 24 Asp Val Glu Glu Asn Arg Thr Glu Ala Pro Glu Gly Thr Glu Ser Glu
 25 1 5 10 15
 28 <210> SEQ ID NO: 2
 29 <211> LENGTH: 166
 30 <212> TYPE: PRT
 31 <213> ORGANISM: Homo sapiens
 33 <400> SEQUENCE: 2
 34 Met Ala His Ala Gly Arg Thr Gly Tyr Asp Asn Arg Glu Ile Val Met
 35 1 5 10 15
 36 Lys Tyr Ile His Tyr Lys Leu Ser Gln Arg Gly Tyr Glu Trp Asp Ala
 37 20 25 30
 38 Gly Asp Asp Val Glu Glu Asn Arg Thr Glu Ala Pro Glu Gly Thr Glu
 39 35 40 45
 40 Ser Glu Val Val His Leu Ala Leu Arg Gln Ala Gly Asp Asp Phe Ser
 41 50 55 60
 42 Arg Arg Tyr Arg Gly Asp Phe Ala Glu Met Ser Ser Gln Leu His Leu
 43 65 70 75 80
 44 Thr Phe Thr Ala Arg Gly Arg Phe Ala Thr Val Val Glu Glu Leu
 45 85 90 95
 46 Phe Arg Asp Gly Val Asn Trp Gly Arg Ile Val Ala Phe Phe Glu Phe
 47 100 105 110
 48 Gly Gly Val Met Cys Val Glu Ser Val Asn Arg Glu Met Ser Pro Leu
 49 115 120 125
 50 Val Asp Asn Ile Ala Leu Trp Met Thr Glu Tyr Leu Asn Arg His Leu
 51 130 135 140
 52 His Thr Trp Ile Gln Asp Asn Gly Gly Trp Asp Ala Phe Val Glu Leu
 53 145 150 155 160
 54 Tyr Gly Pro Ser Met Arg
 55 165
 58 <210> SEQ ID NO: 3
 59 <211> LENGTH: 239
 60 <212> TYPE: PRT

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61 <213> ORGANISM: Homo sapiens
 63 <400> SEQUENCE: 3
 64 Met Ala His Ala Gly Arg Thr Gly Tyr Asp Asn Arg Glu Ile Val Met
 65 1 5 10 15
 66 Lys Tyr Ile His Tyr Lys Leu Ser Gln Arg Gly Tyr Glu Trp Asp Ala
 67 20 25 30
 68 Gly Asp Val Gly Ala Ala Pro Pro Gly Ala Ala Pro Ala Pro Gly Ile
 69 35 40 45
 70 Phe Ser Ser Gln Pro Gly His Thr Pro His Pro Ala Ala Ser Arg Asp
 71 50 55 60
 72 Pro Val Ala Arg Thr Ser Pro Leu Gln Thr Pro Ala Ala Pro Gly Ala
 73 65 70 75 80
 74 Ala Ala Gly Pro Ala Leu Ser Pro Val Pro Pro Val Val His Leu Ala
 75 85 90 95
 76 Leu Arg Gln Ala Gly Asp Asp Phe Ser Arg Arg Tyr Arg Gly Asp Phe
 77 100 105 110
 78 Ala Glu Met Ser Ser Gln Leu His Leu Thr Pro Phe Thr Ala Arg Gly
 79 115 120 125
 80 Arg Phe Ala Thr Val Val Glu Leu Phe Arg Asp Gly Val Asn Trp
 81 130 135 140
 82 Gly Arg Ile Val Ala Phe Phe Glu Phe Gly Gly Val Met Cys Val Glu
 83 145 150 155 160
 84 Ser Val Asn Arg Gln Met Ser Pro Leu Val Asp Asn Ile Ala Leu Trp
 85 165 170 175
 86 Met Thr Glu Tyr Leu Asn Arg His Leu His Thr Trp Ile Gln Asp Asn
 87 180 185 190
 88 Gly Gly Trp Asp Ala Phe Val Glu Leu Tyr Gly Pro Ser Met Arg Pro
 89 195 200 205
 90 Leu Phe Asp Phe Ser Trp Leu Ser Leu Lys Thr Leu Leu Ser Leu Ala
 91 210 215 220
 92 Leu Val Gly Ala Cys Ile Thr Leu Gly Ala Tyr Leu Gly His Lys
 93 225 230 235
 96 <210> SEQ ID NO: 4
 97 <211> LENGTH: 239
 98 <212> TYPE: PRT
 99 <213> ORGANISM: Homo sapiens
 101 <400> SEQUENCE: 4
 102 Met Ala His Ala Gly Arg Thr Gly Tyr Asp Asn Arg Glu Ile Val Met
 103 1 5 10 15
 104 Lys Tyr Ile His Tyr Lys Leu Ser Gln Arg Gly Tyr Glu Trp Asp Ala
 105 20 25 30
 106 Gly Asp Val Gly Ala Ala Pro Pro Gly Ala Ala Pro Ala Pro Gly Ile
 107 35 40 45
 108 Phe Ser Ser Gln Pro Gly His Thr Pro His Pro Ala Ala Ser Arg Asp
 109 50 55 60
 110 Pro Val Ala Arg Thr Ser Pro Leu Gln Thr Pro Ala Ala Pro Gly Ala
 111 65 70 75 80
 112 Ala Ala Gly Pro Ala Leu Ser Pro Val Pro Pro Val Val His Leu Thr
 113 85 90 95

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114 Leu Arg Gln Ala Gly Asp Asp Phe Ser Arg Arg Tyr Arg Arg Asp Phe
115 100 105 110
116 Ala Glu Met Ser Ser Gln Leu His Leu Thr Pro Phe Thr Ala Arg Gly
117 115 120 125
118 Arg Phe Ala Thr Val Val Glu Glu Leu Phe Arg Asp Gly Val Asn Trp
119 130 135 140
120 Gly Arg Ile Val Ala Phe Phe Glu Phe Gly Gly Val Met Cys Val Glu
121 145 150 155 160
122 Ser Val Asn Arg Glu Met Ser Pro Leu Val Asp Asn Ile Ala Leu Trp
123 165 170 175
124 Met Thr Glu Tyr Leu Asn Arg His Leu His Thr Trp Ile Gln Asp Asn
125 180 185 190
126 Gly Gly Trp Asp Ala Phe Val Glu Leu Tyr Gly Pro Ser Met Arg Pro
127 195 200 205
128 Leu Phe Asp Phe Ser Trp Leu Ser Leu Lys Thr Leu Leu Ser Leu Ala
129 210 215 220
130 Leu Val Gly Ala Cys Ile Thr Leu Gly Ala Tyr Leu Gly His Lys
131 225 230 235
134 <210> SEQ ID NO: 5
135 <211> LENGTH: 239
136 <212> TYPE: PRT
137 <213> ORGANISM: Homo sapiens
139 <400> SEQUENCE: 5
140 Met Ala His Ala Gly Arg Thr Gly Tyr Asp Asn Arg Glu Ile Val Met
141 1 5 10 15
142 Lys Tyr Ile His Tyr Lys Leu Ser Gln Arg Gly Tyr Glu Trp Asp Ala
143 20 25 30
144 Gly Asp Val Gly Ala Ala Pro Pro Gly Ala Ala Pro Ala Pro Gly Phe
145 35 40 45
146 Phe Ser Ser Gln Pro Gly His Thr Pro His Pro Ala Ala Ser Arg Asp
147 50 55 60
148 Pro Val Ala Arg Thr Ser Pro Leu Gln Thr Pro Ala Ala Pro Gly Ala
149 65 70 75 80
150 Ala Ala Gly Pro Ala Leu Ser Pro Val Pro Pro Val Val His Leu Thr
151 85 90 95
152 Leu Arg Gln Ala Gly Asp Asp Phe Ser Arg Arg Tyr Arg Arg Asp Phe
153 100 105 110
154 Ala Glu Met Ser Ser Gln Leu His Leu Thr Pro Phe Thr Ala Arg Gly
155 115 120 125
156 Arg Phe Ala Thr Val Val Glu Glu Leu Phe Arg Asp Gly Val Asn Trp
157 130 135 140
158 Gly Arg Ile Val Ala Phe Phe Glu Phe Gly Gly Val Met Cys Val Glu
159 145 150 155 160
160 Ser Val Asn Arg Glu Met Ser Pro Leu Val Asp Asn Ile Ala Leu Trp
161 165 170 175
162 Met Thr Glu Tyr Leu Asn Arg His Leu His Thr Trp Ile Gln Asp Asn
163 180 185 190
164 Gly Gly Trp Asp Ala Phe Val Glu Leu Tyr Gly Pro Ser Met Arg Pro
165 195 200 205

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166 Leu Phe Asp Phe Ser Trp Leu Ser Leu Lys Thr Leu Leu Ser Leu Ala
167 210 215 220
168 Leu Val Gly Ala Cys Ile Thr Leu Gly Ala Tyr Leu Gly His Lys
169 225 230 235
172 <210> SEQ ID NO: 6
173 <211> LENGTH: 237
174 <212> TYPE: PRT
175 <213> ORGANISM: Homo sapiens
177 <400> SEQUENCE: 6
178 Met Ser Met Ala Met Ser Gln Ser Asn Arg Glu Leu Val Val Asp Phe
179 1 5 10 15
180 Leu Ser Tyr Lys Leu Ser Gln Lys Gly Tyr Ser Trp Ser Gln Phe Ser
181 20 25 30
182 Asp Val Glu Glu Asn Arg Thr Gln Ala Pro Glu Glu Thr Glu Ser Glu
183 35 40 45
184 Met Glu Thr Pro Ser Ala Ile Asn Gly Asn Pro Ser Trp His Leu Ala
185 50 55 60
186 Asp Ser Pro Ala Val Asn Gly Ala Thr Gly His Ser Ser Ser Leu Asp
187 65 70 75 80
188 Ala Arg Glu Val Ile Pro Met Ala Ala Val Lys Gln Ala Leu Arg Glu
189 85 90 95
190 Ala Gly Asp Glu Phe Glu Leu Arg Tyr Arg Arg Ala Phe Ser Asp Leu
191 100 105 110
192 Thr Ser Gln Leu His Ile Thr Pro Gly Thr Ala Tyr Gln Ser Phe Gln
193 115 120 125
194 Gln Val Val Asn Glu Leu Phe Arg Asp Gly Val Asn Trp Gly Arg Ile
195 130 135 140
196 Val Ala Phe Phe Ser Phe Gly Gly Ala Leu Cys Val Glu Ser Val Asp
197 145 150 155 160
198 Lys Glu Met Gln Val Leu Val Ser Arg Ile Ala Ala Trp Met Ala Thr
199 165 170 175
200 Tyr Leu Asn Asp His Leu Glu Pro Trp Ile Gln Glu Asn Gly Gly Trp
201 180 185 190
202 Asp Thr Phe Val Glu Leu Tyr Gly Asn Asn Ala Ala Glu Ser Arg
203 195 200 205
204 Lys Gly Gln Glu Arg Phe Asn Arg Trp Phe Leu Thr Gly Met Thr Val
205 210 215 220
206 Ala Gly Val Val Leu Leu Gly Ser Leu Phe Ser Arg Lys
207 225 230 235
210 <210> SEQ ID NO: 7
211 <211> LENGTH: 43
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: primer
218 <400> SEQUENCE: 7
219 cactcacat atggctcacg ctgggagaac ggggtacgac aac
221 <210> SEQ ID NO: 8
222 <211> LENGTH: 43

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Input Set : A:\6752US01 SEQ LISTING.TXT
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223 <212> TYPE: DNA
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: primer
229 <400> SEQUENCE: 8
230 gcgagcttc gagcttcaga gacagccagg agaaatcaa cag 43
232 <210> SEQ ID NO: 9
233 <211> LENGTH: 48
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: primer
240 <400> SEQUENCE: 9
241 gccccaaag ggactgaaatc ggaggtggtc cacctggccc tccgccaa 48
243 <210> SEQ ID NO: 10
244 <211> LENGTH: 48
245 <212> TYPE: DNA
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: primer
251 <400> SEQUENCE: 10
252 ctcagtaagg ttcttttcca catcatctcc cgcattccac tctgtatcc 48
254 <210> SEQ ID NO: 11
255 <211> LENGTH: 43
256 <212> TYPE: DNA
257 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:
260 <223> OTHER INFORMATION: primer
262 <400> SEQUENCE: 11
263 cactcaccat atggctcacg ctggagaac ggggtacgac aac 43
265 <210> SEQ ID NO: 12
266 <211> LENGTH: 50
267 <212> TYPE: DNA
268 <213> ORGANISM: Artificial Sequence
270 <220> FEATURE:
271 <223> OTHER INFORMATION: primer
273 <400> SEQUENCE: 12
274 gcgaaatctt cgagctatca ataaacaga ggcgcatgc tggggccgta 50
276 <210> SEQ ID NO: 13
277 <211> LENGTH: 31
278 <212> TYPE: DNA
279 <213> ORGANISM: Artificial Sequence
281 <220> FEATURE:
282 <223> OTHER INFORMATION: primer
284 <400> SEQUENCE: 13
285 gaggtgttcc acctgaccct ccyccaaagcc g 31
287 <210> SEQ ID NO: 14
288 <211> LENGTH: 31
289 <212> TYPE: DNA

VERIFICATION SUMMARY
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Input Set : A:\6752US01 SEQ LISTING.TXT
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L:14 M:270 C: Current Application Number differs, Replaced Current Application No
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date